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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/944,288	08/30/2001	Michael Foley	05125.0001U1/EMC 99-048	1888
75	90 06/29/2005		EXAMI	NER
Lawrence D. N	Maxwell, Esq. SENBERG, P.C.		TIV, BAC	KHEAN
	ilding, Suite 1200		ART UNIT	PAPER NUMBER
127 Peachtree S	<u> </u>		2151	·
Atlanta, GA 3	0303-1811		DATE MAILED: 06/29/2005	;

Please find below and/or attached an Office communication concerning this application or proceeding.

JUL 1 1 2005

	Application No.	Applicant(s)
	09/944,288	FOLEY ET AL.
Office Action Summary	Examiner	Art Unit
	Backhean Tiv	2151
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. C) (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2/1/0:	<u>5</u> .	·
	action is non-final.	·
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdray		
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-21</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
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9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acce		=vaminer
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·	,
11) ☐ The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).
 Certified copies of the priority documents 		
2. Certified copies of the priority documents		
3. Copies of the certified copies of the prior		ed in this National Stage
application from the International Bureau		
* See the attached detailed Office action for a list	of the certified copies not receive	e 0.
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Attachment(s)		(DTO 440)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	
Notice of Draitsperson's Patent Drawing Newwy (* 10-940) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)
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Detailed Action

Claims 1-21 are pending in this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,3,12,13,14,17,18,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Publication 2001/0047460 issued to Kobayashi et al.(Kobayashi) in view of US Patent 6,810,478 issued to Anand et al.(Anand) in further view US Publication 2002/0059263 issued to Shima et al.(Shima).

As per claim 1, 12,17, Kobayashi teaches a method for adding a host computer to a storage-area network having a data storage system on which are stored a plurality of configurations(Fig.1), comprising:

receiving an identifier transmitted by the host computer via the network(Abstract); providing the host access to a storage device on which the operating system is stored(Abstract);

a switch coupled to each host computer and having a plurality of ports, each port coupled to the storage system(Fig.1).

Kobayashi however, does not explicitly teach physically connecting the diskless host computer to the network; looking up a configuration corresponding to the received

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identifier, each configuration including an operating system different from the operating system of all other configurations of the plurality of configurations; the host booting from the operating system stored on the storage device.

Anand teaches physically connecting the diskless host computer to the network (col.1, lines 27-30, fig.1); looking up a configuration(Abstract, col.5, lines 44-47); the host booting from the operating system stored on the storage device(Abstract).

Therefore it would have been obvious to one ordinary skilled in the art at the time of the invention to modify the teachings of Kobayashi to explicitly add physically connecting the diskless host computer to the network, looking up a configuration, the host booting from the operating system stored on the storage device as taught by Anand to look up configuration based on an identifier in order boot multiple systems over a network(Anand, col.1, lines 9-13).

One ordinary skilled in the art at the time of the invention would have been motivated to combine the teachings of Kobayashi, and Anand in order boot different computers on the network from a server(Kobayashi, col.1, lines 10-13).

Kobayashi in view of Anand does not explicitly teach different configuration or OS systems.

Shima teaches different OS systems(Abstract).

Therefore it would have been obvious to one ordinary skilled in the art at the time of the invention to modify the teachings of Kobayashi in view of Anand to have different OS systems as taught by Shima in order to manage data in storage device without the concern of what type of operating system is used(Shima, paragraph 0010).

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One ordinary skilled in the art at the time of the invention would have been motivated to combine the teachings of Kobayashi, Anand and Shima in order to provide a system where files can be accessed on different computers with different OS systems(Shima, paragraph 0006).

As per claim 2, 13, 18, providing the host access to a storage device, copying the operating ystme to the storage device from another device of the storage system(Kobayashi, Abstract, Anand, col.5, lines 44-47, Shima, Abstract).

One ordinary skilled in the art at the time of the invention would have been motivated to combine Kobayashi, and Anand and Shima and copy an OS from one device to another to provide a method in order for computers to boot from a server.

As per claim 3,14,19, wherein the step of receiving an identifier comprises a Fibre Channel switch receiving a World Wide Name (WWN) from the host in accordance with a Fibre Channel log-in protocol(Kobayashi, Fig.1, 3, Anand, Fig.1, 4).

Claims 4,5,6,7,8,9,10,15,20, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Publication 2001/0047460 issued to Kobayashi et al.(Kobayashi) in view of US Patent 6,810,478 issued to Anand et al.(Anand) in further view US Publication 2002/0059263 issued to Shima et al.(Shima) in further view of US Publication 2002/0162010 issued to Allen et al.(Allen).

Kobayashi in view of Anand in further view of Shima teaches all the limitations of claims 1,12,17 however does not explicitly teach as per claim 4,15,20, wherein the step of looking up a configuration comprises: a control station computer querying the Fibre

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Channel switch for the WWN; and the control station looking up the configuration in a database in response to the WWN, each WWN having a corresponding configuration.

Allen teaches wherein the step of looking up a configuration comprises: a control station computer querying the Fibre Channel switch for the WWN(Fig.3, Fig.4); and the control station looking up the configuration in a database in response to the WWN, each WWN having a corresponding configuration(paragraph 28,49,53).

Therefore it would have been obvious at the time of the invention to modify the teachings of Kobayashi in view of Anand in further view of Shima to query the Fibre Channel for the WWN and to look up configuration in a database in response to the WWN as taught by Allen in order to keep track of devices that are connected to the Fibre Channel(Allen, paragraph 0003).

One ordinary skilled in the art at the time of the invention would have been motivated to combine the teachings of Kobayashi, Anand, Shima, and Allen in order to provide a system to uniquely identify devices on the network and determine their configuration for communication(Allen, paragraph 23, 28).

As per claim 5, the method claimed in claim 4, wherein the control station queries the Fibre Channel switch in response to a notification received from the host via an Internet Protocol (IP) network(Anand, col.1, lines 48).

Therefore it would have been obvious to one ordinary skilled in the art at the time of the invention to modify the teachings of Kobayashi, Anand, Shima, and Allen and use an IP network as taught by Anand to provide an address across a computer network to another device.

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One ordinary skilled in the art at the time of the invention would have been motivated to combine the teachings of Kobayashi, Anand, Shima, and Allen in order to provide a system where a device can detect another device through a network address.

As per claim 6, the method claimed in claim 5, wherein the host connects to the IP network using a DHCP protocol(Anand, Fig.4). Motivation to combine set forth in claim 5.

As per claim 7, the method claimed in claim 1, wherein the step of providing the host access to the storage device comprises establishing a connection through a switch(Allen, Fig.2). Motivation to combine set forth in claim 4.

As per claim 8, the method claimed in claim 7, wherein the switch is a Fibre Channel switch(Allen, Fig.2). Motivation to combine set forth in claim 4.

As per claim 9, wherein the step of receiving an identifier comprises a Fibre Channel switch receiving a World Wide Name (WWN) from the host in accordance with a Fibre Channel log-in protocol(Kobayashi, Fig.1, 3, Anand, Fig.1, 4). Motivation to combine set forth in claim 4.

As per claim 10,21, recites the combination to claims 4 and 5, therefore is rejected based on the same rationale as claims 4 and 5 (see claim 4 and 5 above).

Claims 11, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Publication 2001/0047460 issued to Kobayashi et al.(Kobayashi) in view of US Patent 6,810,478 issued to Anand et al.(Anand) in further view US Publication

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2002/0059263 issued to Shima et al.(Shima) in further view of US Publication 2002/0162010 issued to Allen et al.(Allen) in further view of US Patent 6,343,287 issued to Kumar et al.(Kumar).

Kobayashi in view of Anand in further view of Shima in further view of Allen teaches all the limitations of claim 10, and 12, however does not teach as per claim 11,16, wherein the database uses the lightweight directory access protocol (LDAP).

Kumar teaches the use of LDAP for a database(Fig.3).

Therefore it would have been obvious at the time of the invention to one ordinary skilled in the art to modify Kobayashi in view of Anand in further view of Shima in further view of Allen to use LDAP for a database as taught by Kumar in order to comb through data to find a particular piece of information.

One ordinary skilled in the art at the time of the invention would have been motivated to combine the teachings of Kobayashi, Anand, Shima, Allen, and Kumar in order to provide a system to us a network protocol designed to work on TCP/IP stacks to extract information.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Backhean Tiv whose telephone number is (571)272-3941. The examiner can normally be reached on 9 A.M.-12 P.M. and 1 -6 P.M. Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on (571) 272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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6/22/05

ZARNI MAUNG

SUPERVISORY PATENT EXAMINER

Notice of References Cited

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
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	С	US-5,485,579 A	01-1996	Hitz et al.	709/221
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	F	US-6,185,623 B1	02-2001	Bailey et al.	709/238
	G	US-2001/0047460 A1	11-2001	Kobayashi et al.	711/162
	Н	US-2002/0073303 A1	06-2002	French et al.	713/1
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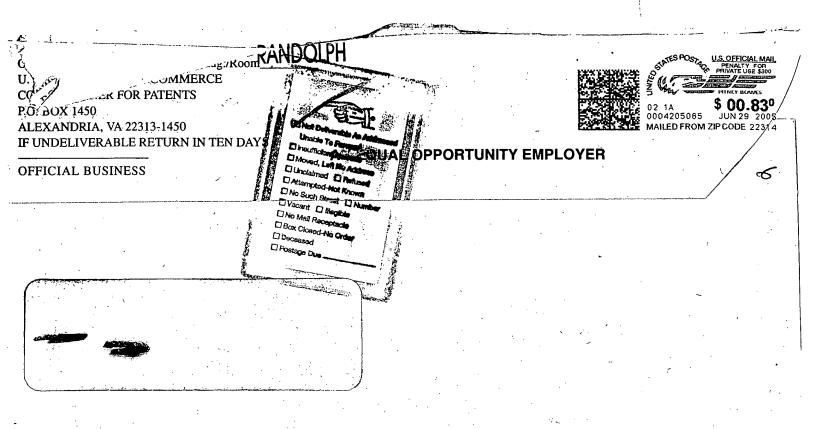
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